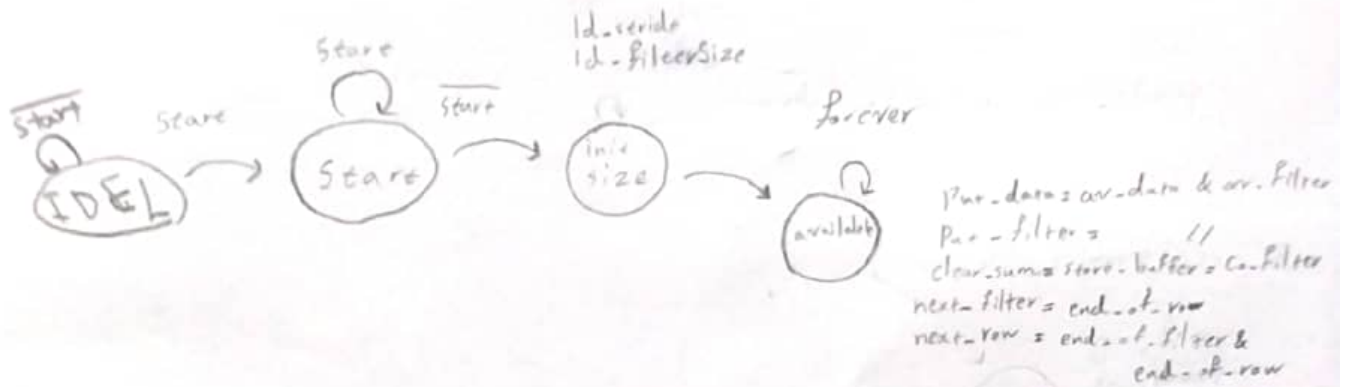
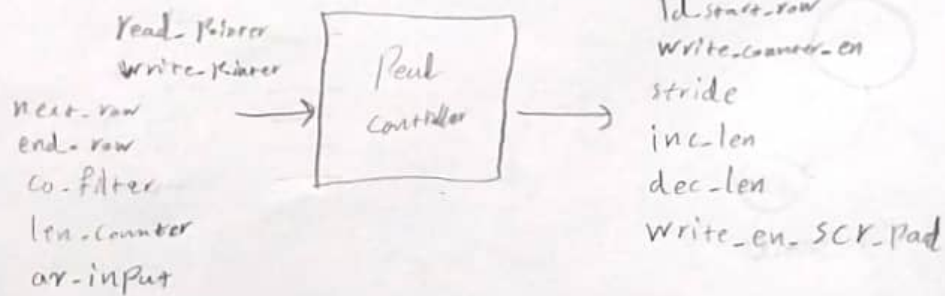


Main Controller



Read Controller IFMAP



av-data = (len-counter == 0)

end-of-row = end-row

ld-start-row = next-row

Write-counter-en = av-input & (len-counter < size-IFMAP)

stride = Co-filter

inc-len = Write-counter-en

dec-len = next-row

Write-en-SRC-Pad = Write-counter-en

Read_Controller_Filter

Co_Filter
av-input
Filter-size
write-pointer
read-pointer



Write-en-scr-pad
write-counter-en
end-of-filter
av-filter

$$\text{Write-en-scr-pad} = \text{write-counter-en} = \text{av-input} \& \left(\text{write-pointer} \leq \left(\text{SP-size} - (\text{SP-size} \% \text{F-size}) \right) \right)$$

$$\text{end-of-filter} = \left(\text{read-pointer} == \text{SP-size} (\text{SP-size} \% \text{F-size}) \right)$$

$$\text{av-filter} = \left(\text{read-pointer} < \text{write-pointer} \right)$$